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“Step Out From the Old to the New”

IS 4494 (1968): Tables, Overbed [MHD 12: Hospital Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS : 4494 - 1968
(Reaffirmed 1977)

Indian Standard
SPECIFICATION FOR
TABLES, OVERBED

REAFFIRMED 200

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR TABLES, OVERBED

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Indian Standard

SPECIFICATION FOR TABLES, OVERBED

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 12 February 1968, after the draft finalized by the Hospital Equipment Sectional Committee had been approved by the Consumer Products Division Council.

0.2 The formulation of Indian Standards on hospital equipment has been taken up at the instance of the Advisory Committee for Development of Surgical Instruments, Equipment and Appliances, Government of India.

0.3 This standard is one of a series of Indian Standards on hospital furniture. Other specifications in the series are:

- IS : 4035-1967 Trolleys, stretcher
- IS : 4036-1967 Trolleys, patient
- IS : 4037-1967 Stretcher and stretcher carriers
- IS : 4266-1967 Lockers, bedside
- IS : 4267-1967 Stands, wash-hand basin
- IS : 4455-1967 Trolleys, soiled linen
- IS : 4458-1967 Screens, bedside

0.4 In preparing this standard, assistance has been derived from B.S. 2483 : 1954 'Specification for overbed tables for use in hospitals' issued by the British Standards Institution.

0.5 In some of the clauses of this standard, reference has been made to IS : 4033* and IS : 4034† which are under preparation. Until these standards are published, the requirements in such clauses shall be subject to agreement between the concerned parties.

0.6 This standard contains clauses 2.1 and 5.1 which call for agreement between the purchaser and the manufacturer.

0.7 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960‡. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*General requirements for hospital furniture (*under preparation*).

†Specification for castors for hospital equipment (*under preparation*).

‡Rules for rounding off numerical values (*revised*).

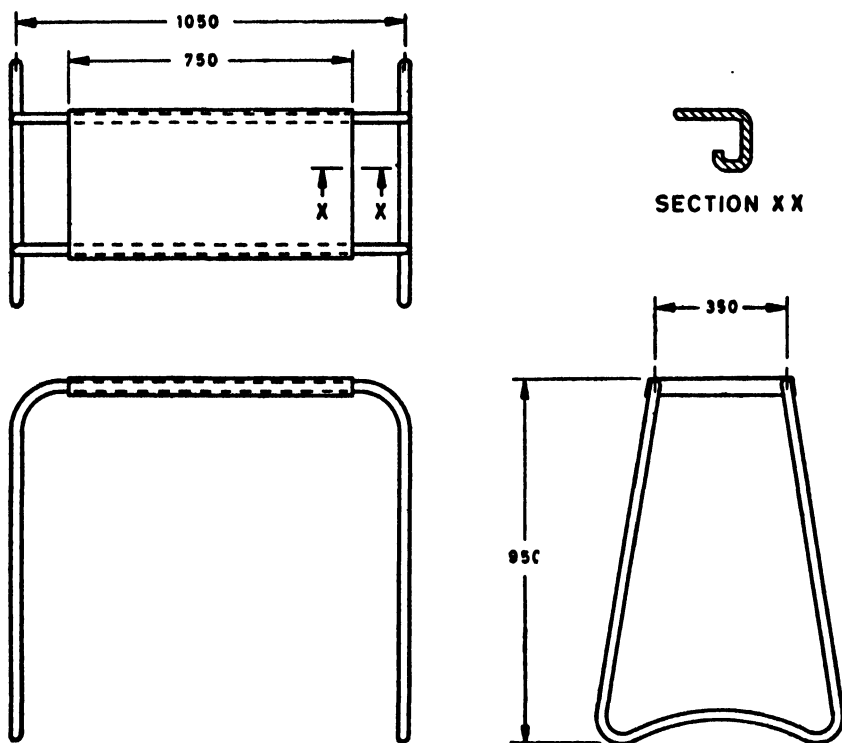
1. SCOPE

1.1 This standard lays down the requirements of fixed height overbed tables used in hospitals and other similar institutions.

2. TYPES

2.1 The overbed tables shall be of the following two types:

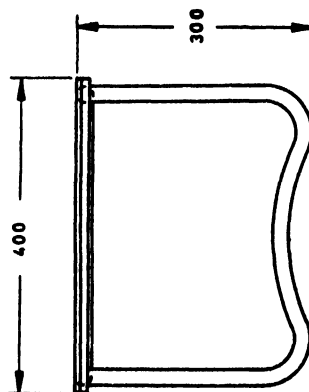
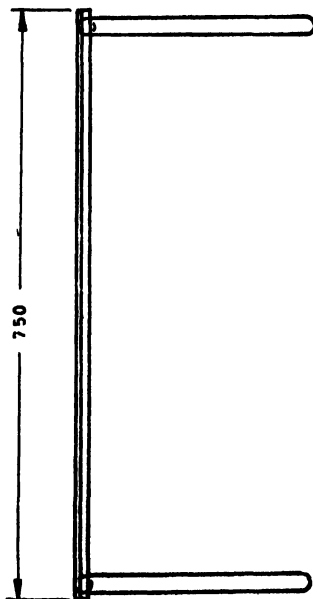
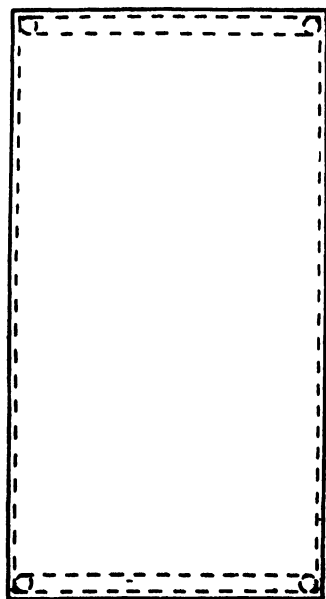
Type 1 — Overbed table with top mounted on tubular metal frame-work having legs over the bed or over the ground as desired by the purchaser (see Fig. 1 and 2).



General tolerance on dimensions: ± 5

All dimensions in millimetres.

FIG. 1 OVERBED TABLE

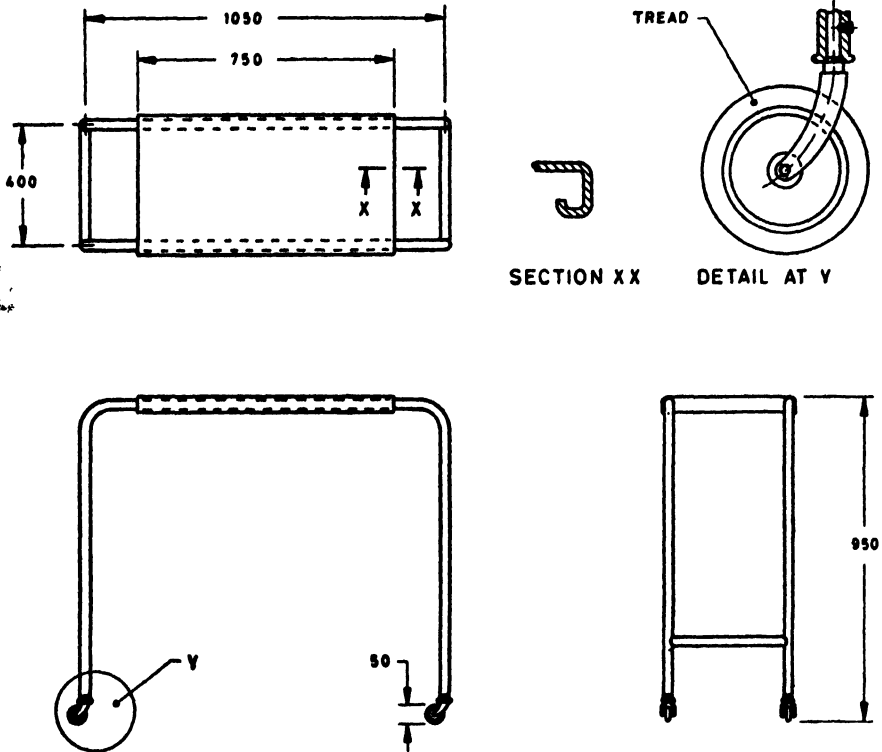


General tolerance on dimensions: ± 5

All dimensions in millimetres.

FIG. 2 OVERBED TABLE

Type 2 — Overbed table with top mounted on a tubular metal framework and having legs fitted with castors (see Fig. 3).



General tolerance on dimensions: ± 5
All dimensions in millimetres.

FIG. 3 OVERBED TABLE

3. MATERIAL

3.1 Framework — shall be according to 2.1 of IS : 4033*.

3.2 Top — It shall be of rust-resisting or rust-proof metal. It shall also conform to 2.2 (a) and (c) of IS : 4033*.

3.3 Castors — shall be according to IS : 4034†.

*General requirements for hospital furniture (under preparation).

†Specification for castors for hospital equipment (under preparation).

4. DIMENSIONS

4.1 The main dimensions of the overbed tables shall be as given in Fig. 1 to 3.

4.2 The tube used for framework shall have a thickness of 1.22 mm and outside diameter 22.22 mm. For tie bars the tube shall have a thickness of 1.22 mm and outside diameter 15.88 mm.

4.3 The metal sheets used for the top shall have the following thickness:

| <i>Material</i> | <i>Thickness</i> |
|-----------------|------------------|
| | mm |
| Mild steel | 1.00 |
| Aluminium | 1.25 |

5. MANUFACTURE

5.1 Overbed tables shall have a framework of continuous length mild steel tubes as shown in the figures. The tubes shall be so bent to act as tie bars (see Type 1 overbed tables). However, in case of Type 2 overbed table, the two pairs of legs of the table shall be connected by tie rods as shown in Fig. 3. The sheet metal top shall be attached to the longitudinal members of the framework by rolling over and soldering or shall be otherwise securely fastened to the framework. When employing mild steel for top, it may be superimposed with laminated sheet instead of the finish specified, if so required by the purchaser. The rest of the details shall be according to 4.1 of IS : 4033*.

5.2 Castors — Overbed table Type 2 shall be provided with four castors. For rest of the details 4.2 of IS : 4033* shall apply.

6. FINISH

6.1 The finish shall be in accordance with 5 of IS : 4033*.

7. TEST

7.1 The test shall be as specified in 6 of IS : 4033*, but the performance shall be determined without putting any additional load on the overbed table (this test is only applicable for Type 2 tables).

8. MARKING

8.1 The marking shall be as specified in 7 of IS : 4033*.

9. PACKING

9.1 The packing shall be as specified in 8 of IS : 4033*.

*General requirements for hospital furniture (under preparation).

**AMENDMENT NO. 1 JANUARY 1996
TO
IS 4494 : 1968 SPECIFICATION FOR TABLES,
OVERBED**

(*Page 5, clause 3.2*) — Substitute the following for the existing clause:

'3.2 Top — It shall be made of one mm mild steel sheet overlapped either by stainless steel sheet of minimum 0.5 mm thickness or aluminium sheet of one mm thickness having 10 micron anodic coating as per Grade AC 10 of IS 1868 : 1982.'

(*Page 6, clause 4.2*) — Substitute the following for the existing clause:

'4.2 The tube used for framework shall have thickness of 2.35 mm and outside diameter of not less than 26.9 mm. For tie bars the tube shall have the thickness of 2.00 mm and outside diameter of not less than 21.3 mm.'

(*Page 6, clause 4.3, Informal table*) — Substitute the following for the existing table:

| <i>Material</i> | <i>Thickness mm</i> |
|-----------------|-------------------------|
| Mild steel | 1.00 |
| Aluminium | 1.25 |
| Stainless steel | 0.5 |

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